

Amend

performance execution units require ten times the chip area or more to implement in a FPGA than would be utilized in a typical standard application specific integrated circuit (ASIC) design. Rather than use a costly FPGA approach for a configurable processor design, the present invention uses a standard ASIC process to provide software-configurable processor designs optimized for an application. The present invention allows for a dynamically configurable processor for low volume and development evaluations while also allowing optimized configurations to be developed for high volume applications with low cost and low power using a single common architecture and tool set.

Please replace the paragraph beginning at page 3, line 14, with the following rewritten paragraph:

*Sub C1
A2*

In one embodiment of the present invention, a manifold array (ManArray) architecture is adapted to employ various aspects of the present invention to solve the problem of configurable application-specific instruction set optimization and program size reduction, thereby increasing code density and making the general ManArray architecture even more desirable for high-volume and portable battery-powered types of products. The present invention extends the pluggable instruction set capability of the ManArray architecture described in U.S. Application Serial No. 09/228,374 filed December 18, 1998, entitled "Methods and Apparatus for Scalable Instruction Set Architecture with Dynamic Compact Instructions" with new approaches to program code reduction and stand-alone operation using only abbreviated instructions in a manner not previously described.

In the Claims

Please cancel claims 39-48 and 52-56 without prejudice.